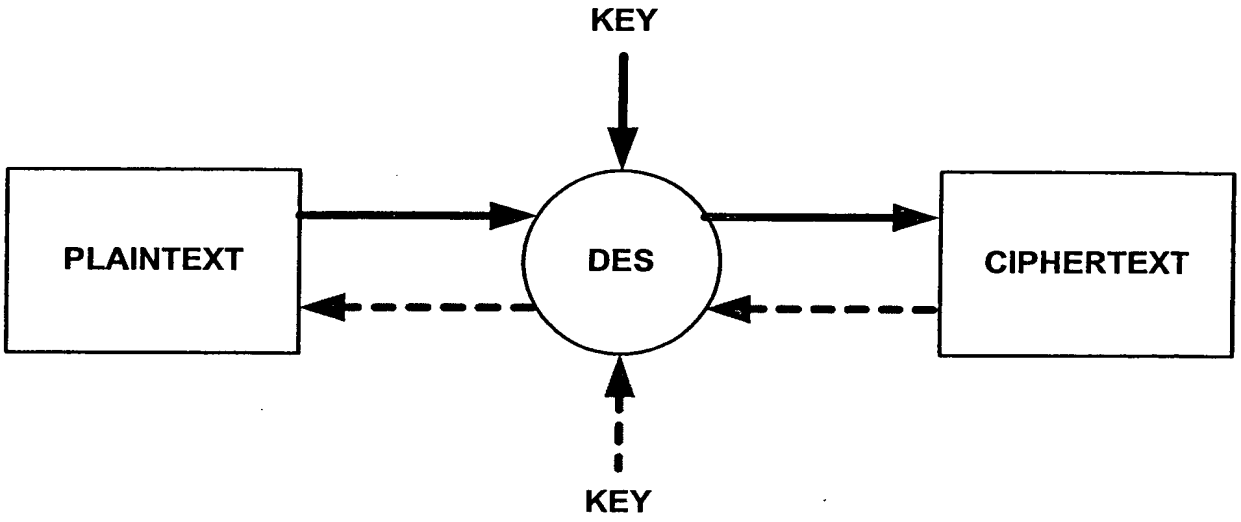
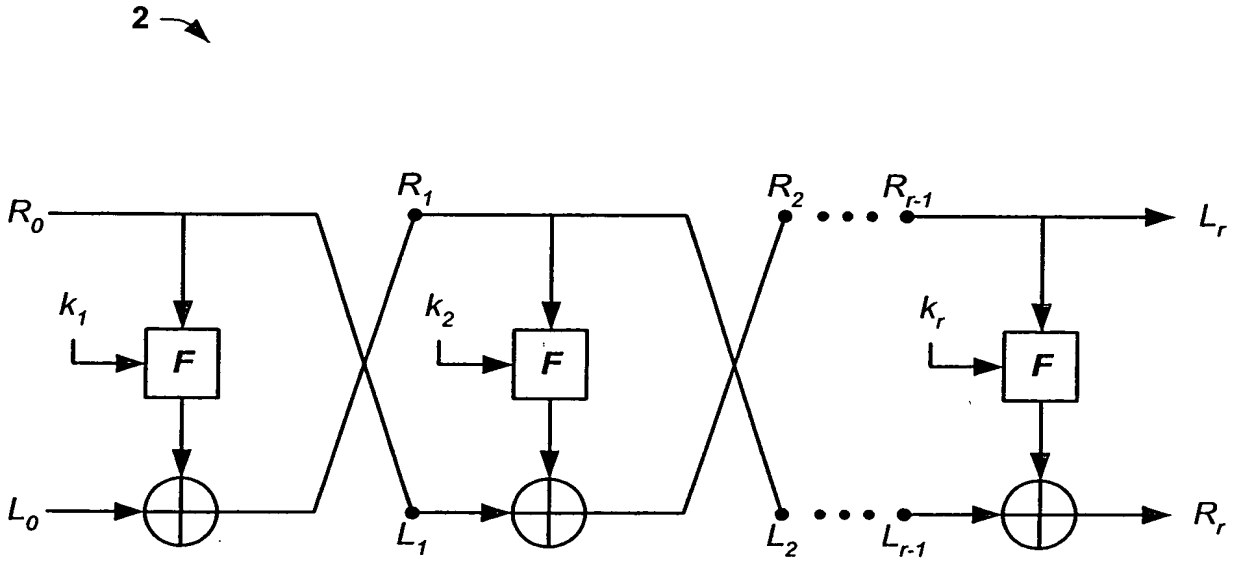


Fig. 1A



Feistel Cipher

Fig. 1B

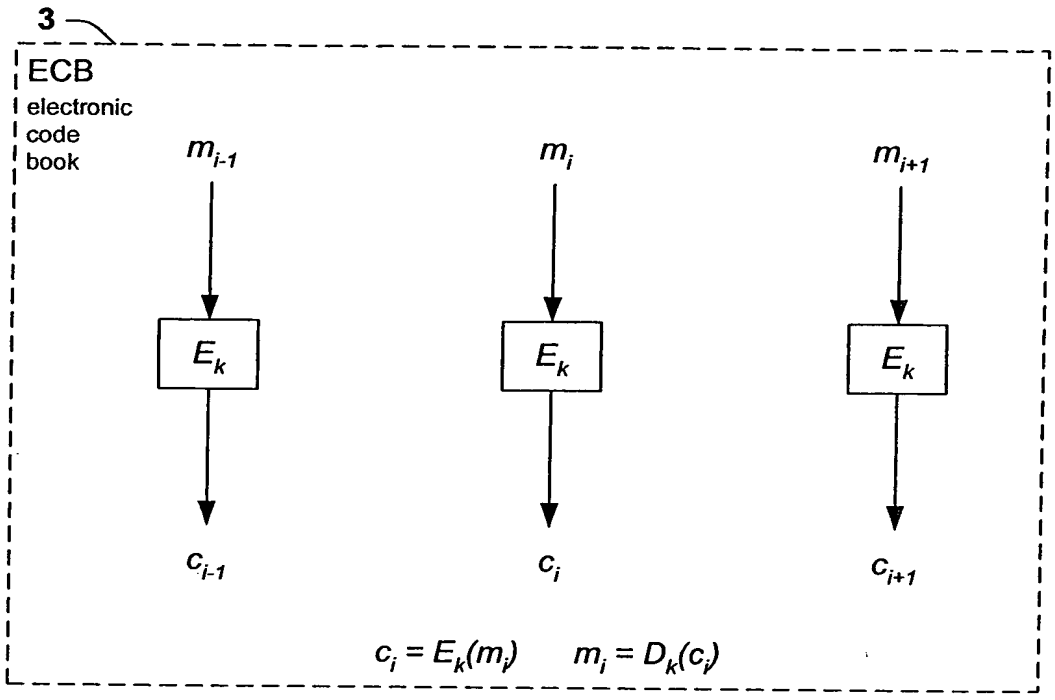


Fig. 1C

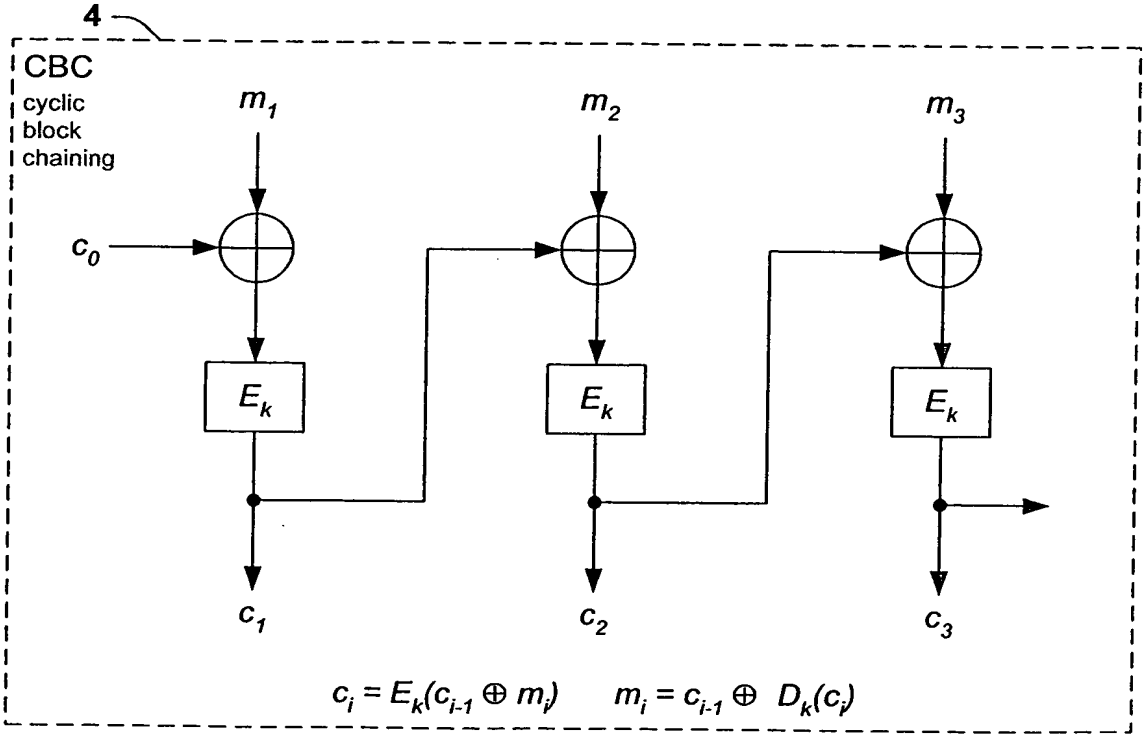


Fig. 1D

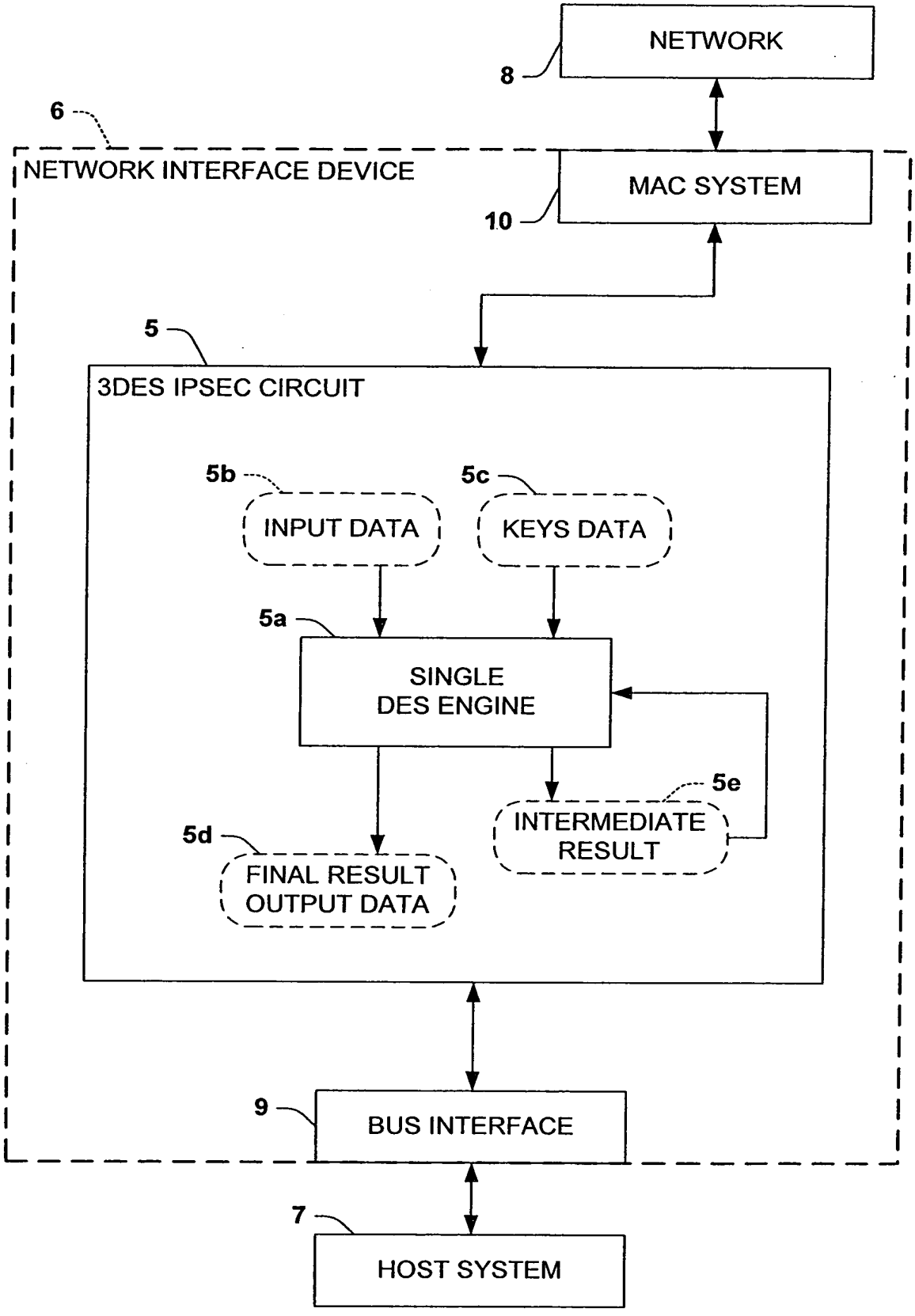


Fig. 1E

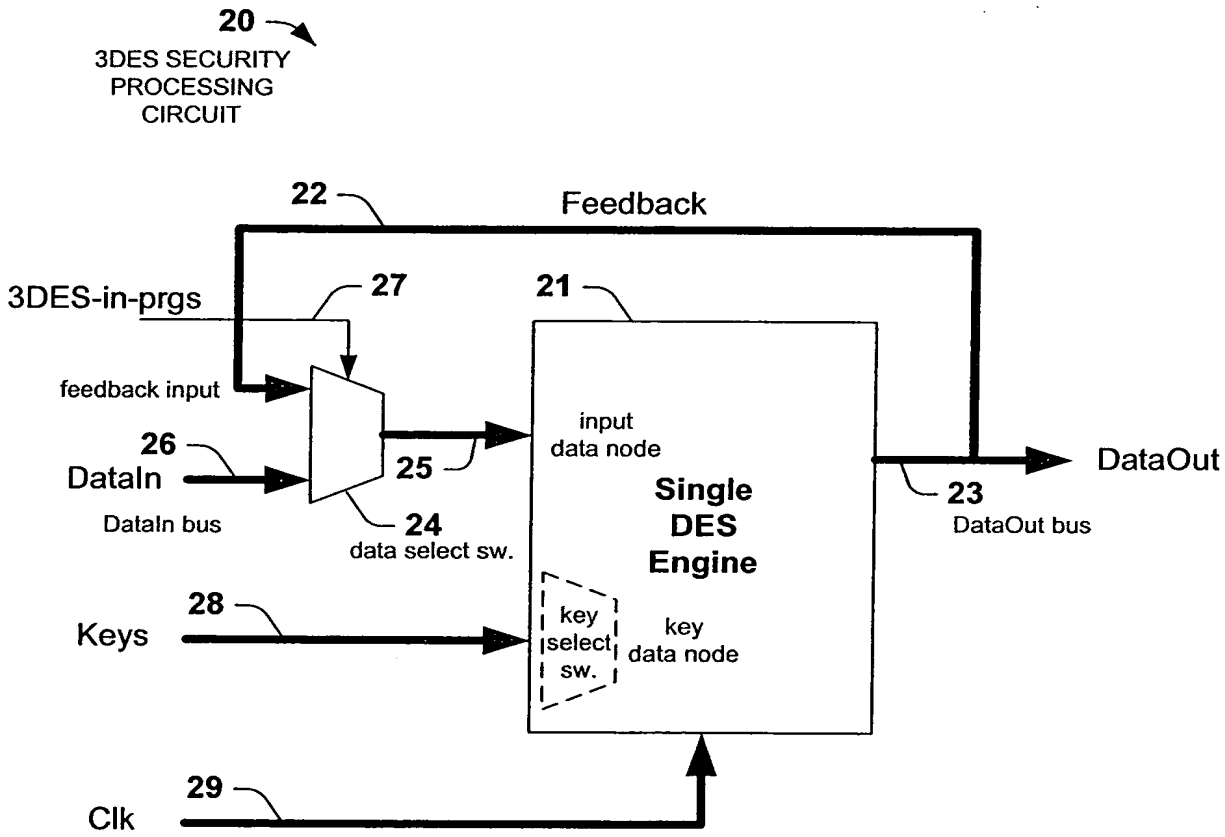


Fig. 1F

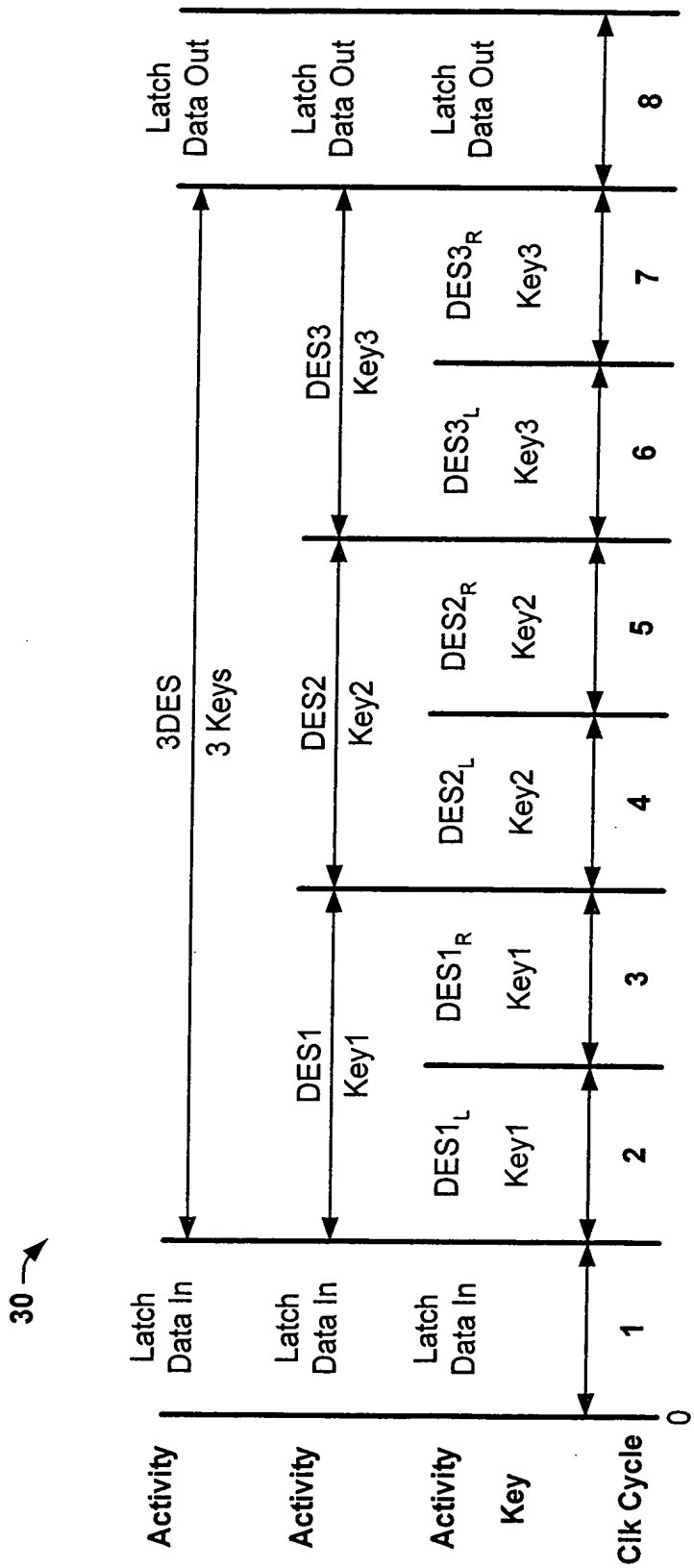


Fig. 1G

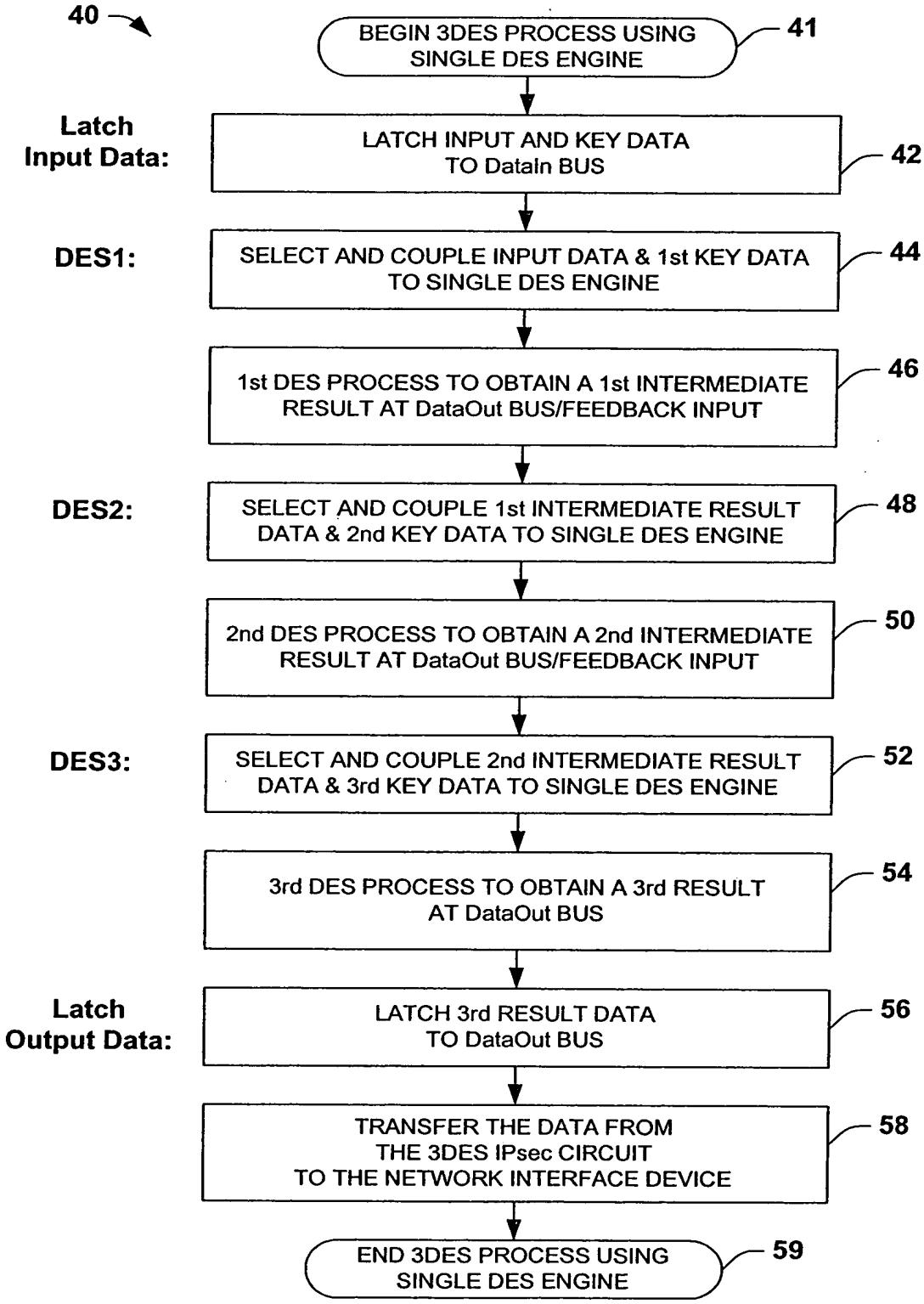


Fig. 1H

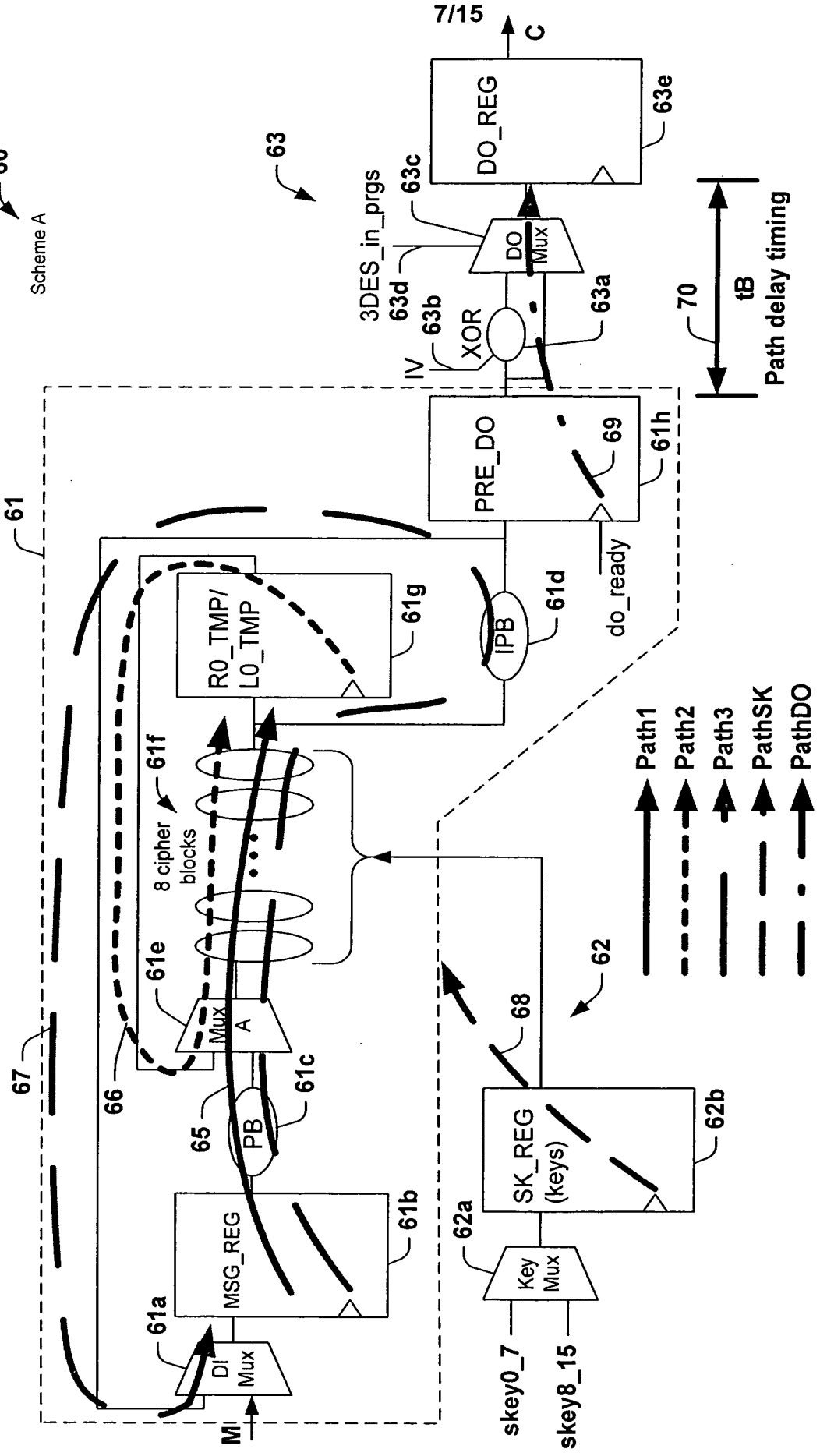


Fig. 11

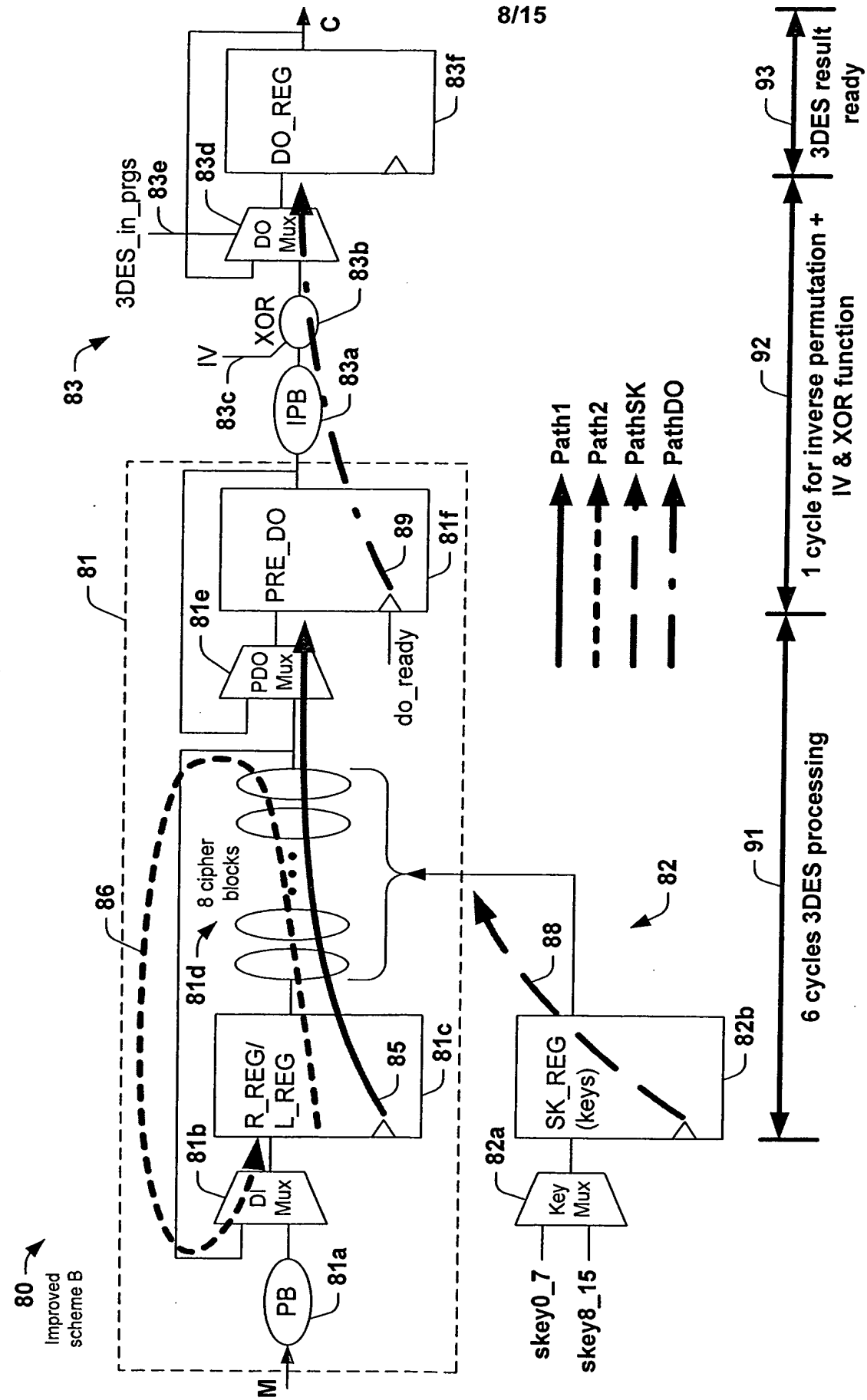


Fig. 1J

99

Scheme A	Improved Scheme B
Path1 (1st 8 steps)	**Path1 (1st 8 steps)**
PB	8 Cipher Blks
MuxA	PDO Mux
8 Cipher Blks	
Path2 (2nd 8 steps)	**Path2 (2nd 8 steps)**
MuxA	8 Cipher Blks
8 Cipher Blks	DI Mux
Path3 (loopback for 3DES)	**Path3 (equivalent- 1 or 2)**
PB	8 Cipher Blks
MuxA	DI Mux or PDO Mux
8 Cipher Blks	
IPB	
DI Mux	
PathDO	**PathDO**
IV XOR	IPB
DO Mux	IV XOR
	DO Mux
PathSK	**PathSK**
8 Cipher Blks	8 Cipher Blks
	PDO Mux

Fig. 1K

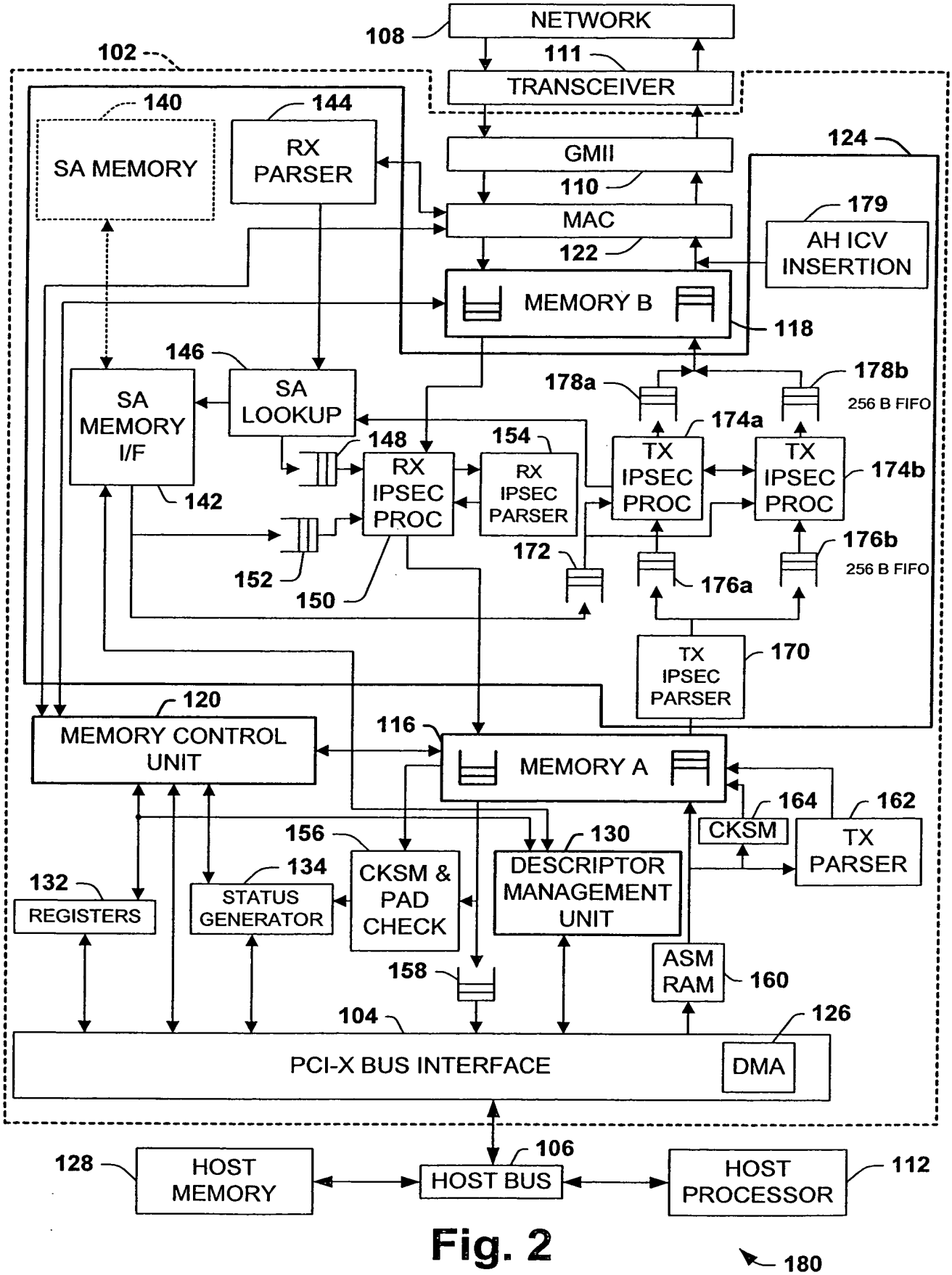


Fig. 2

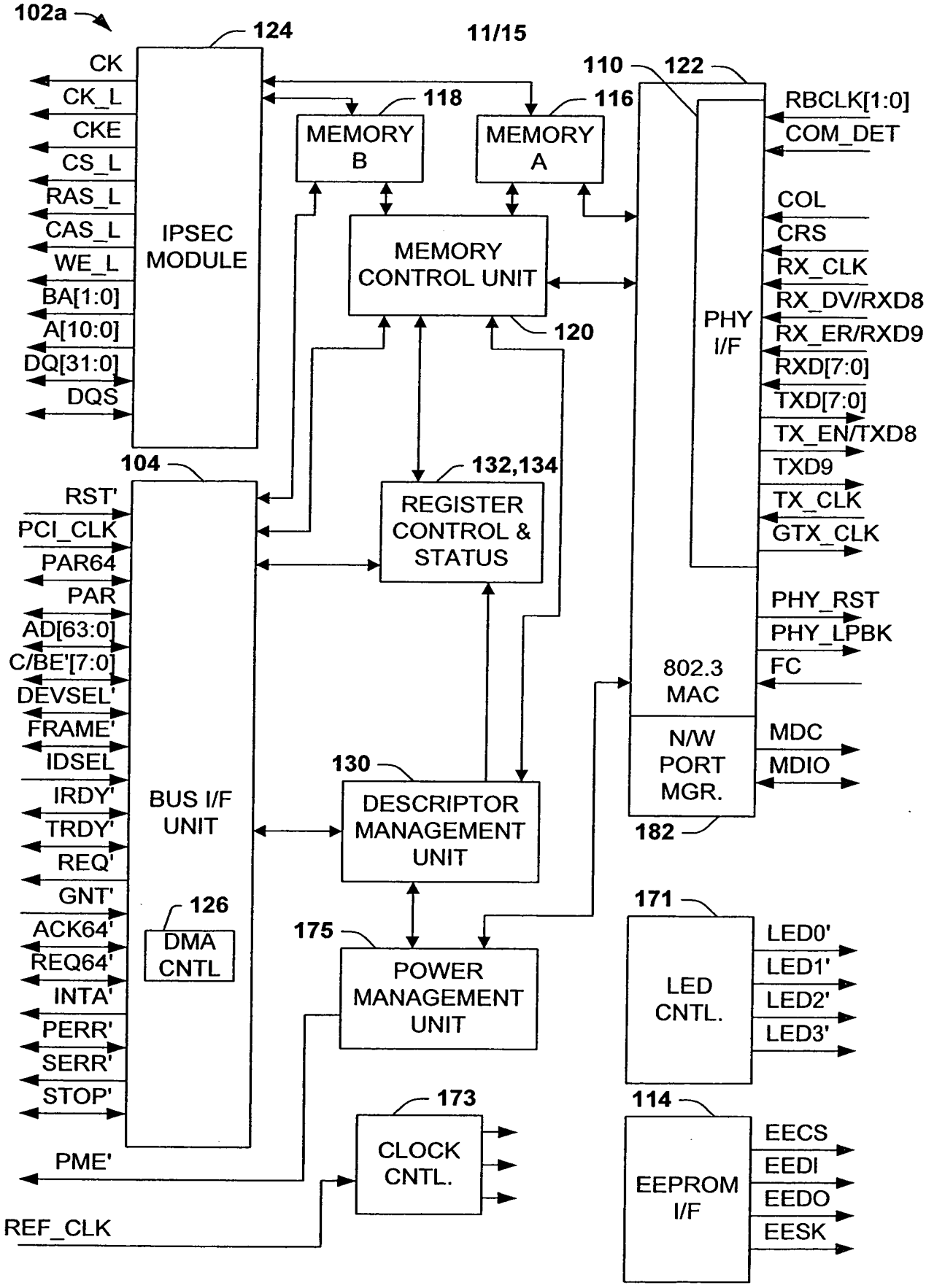


Fig. 3

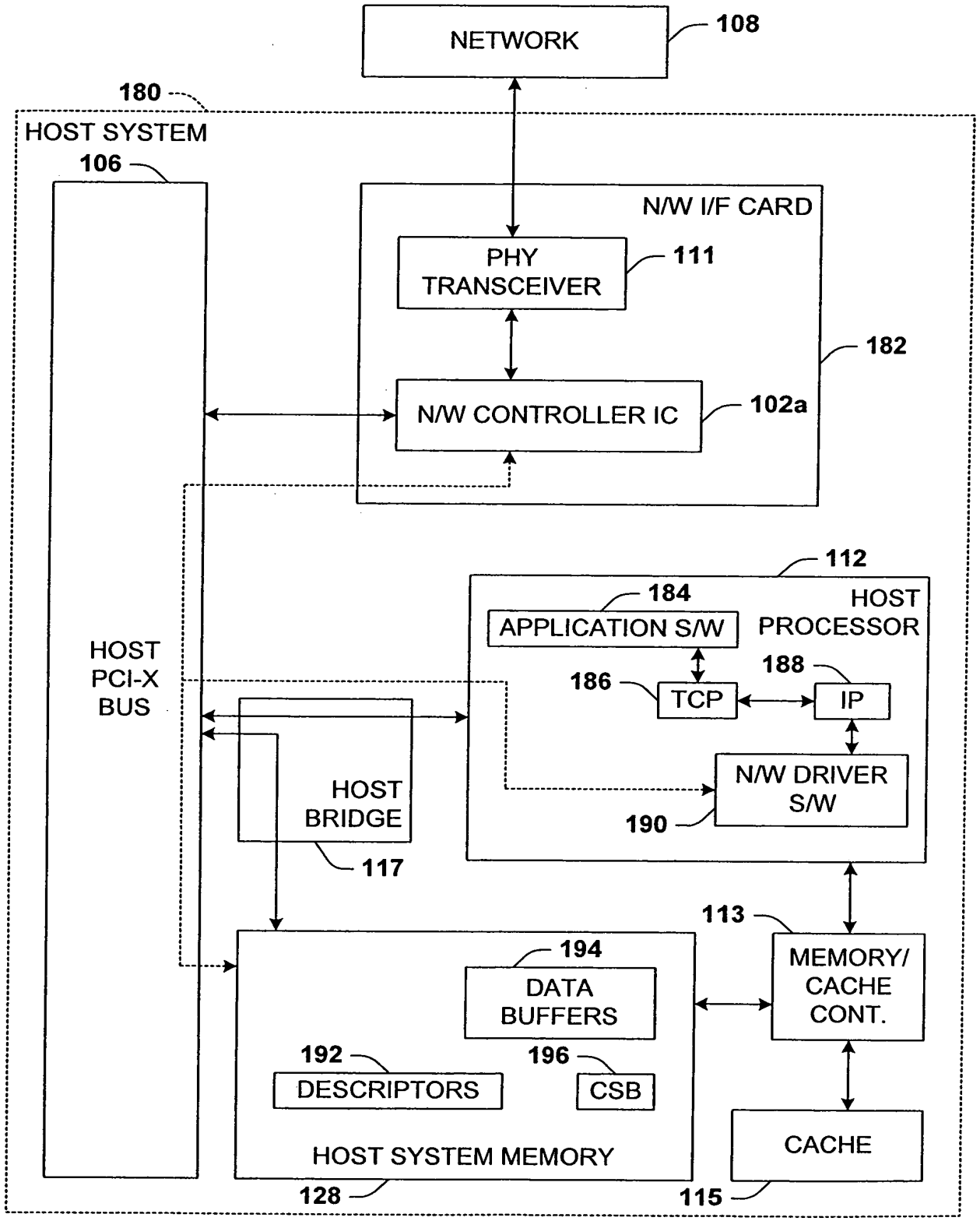


Fig. 4

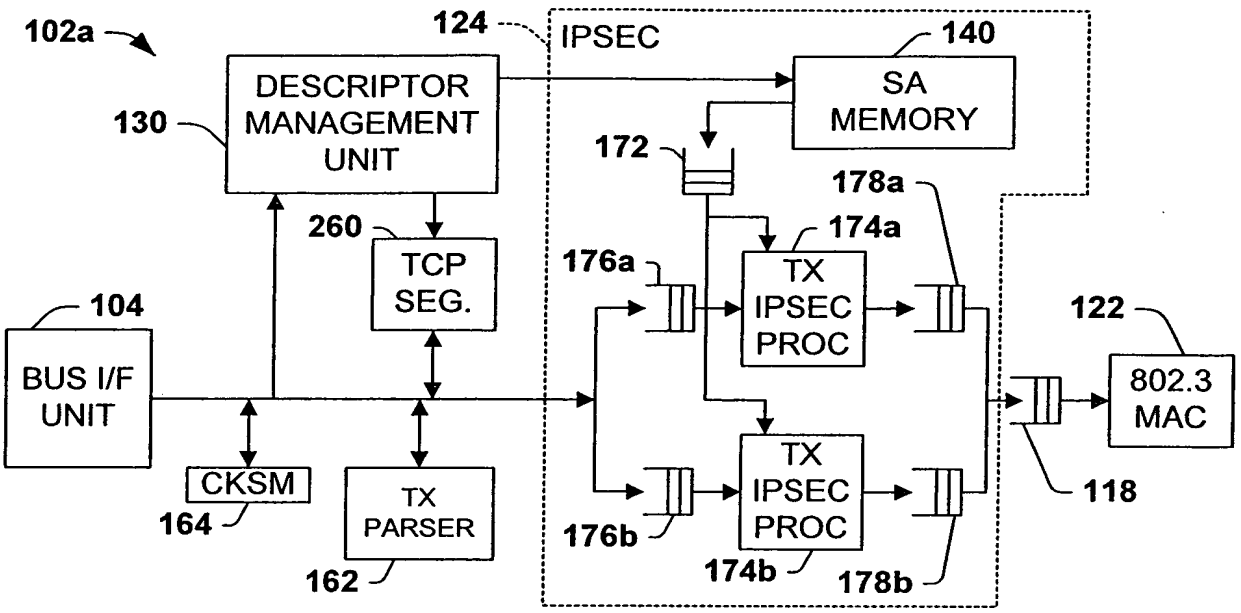


Fig. 5

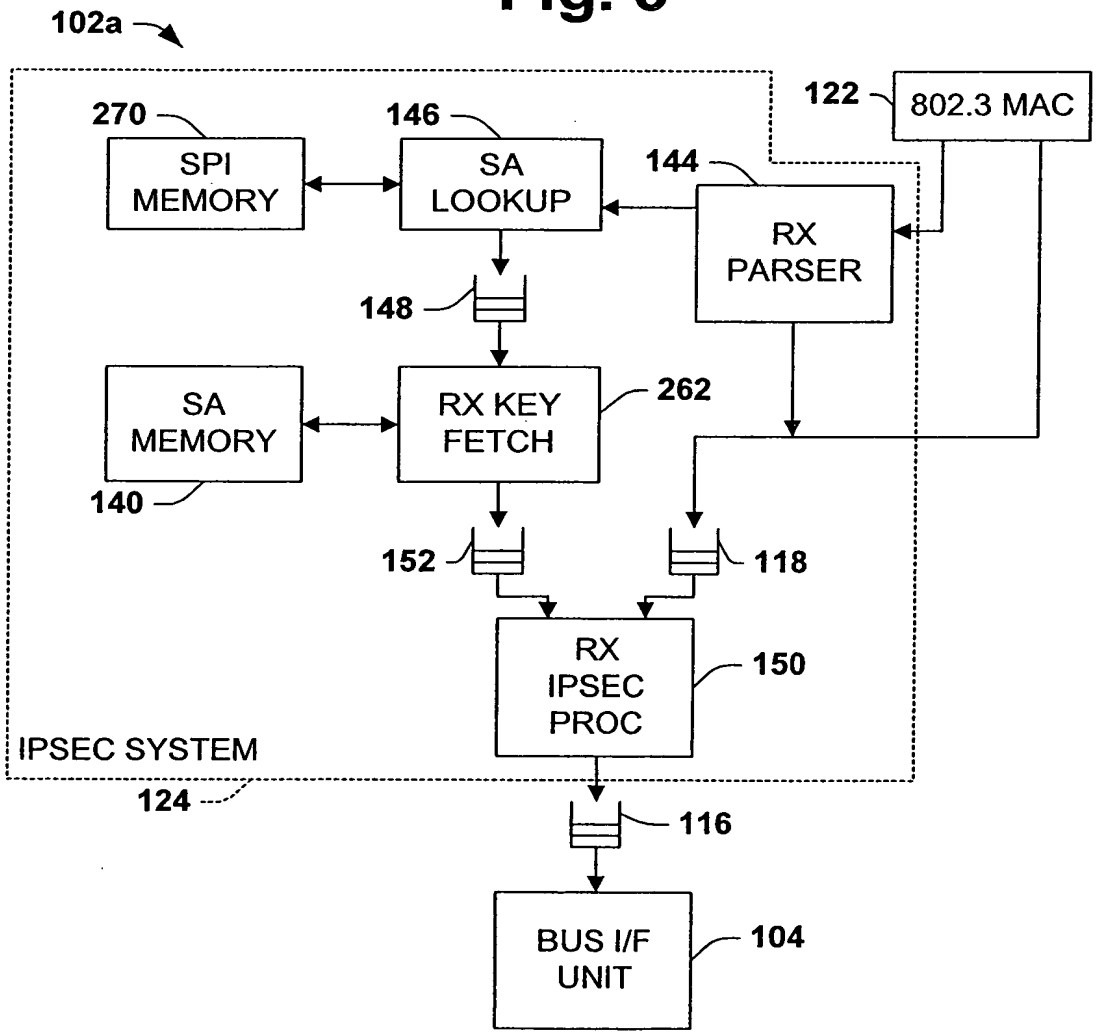


Fig. 6

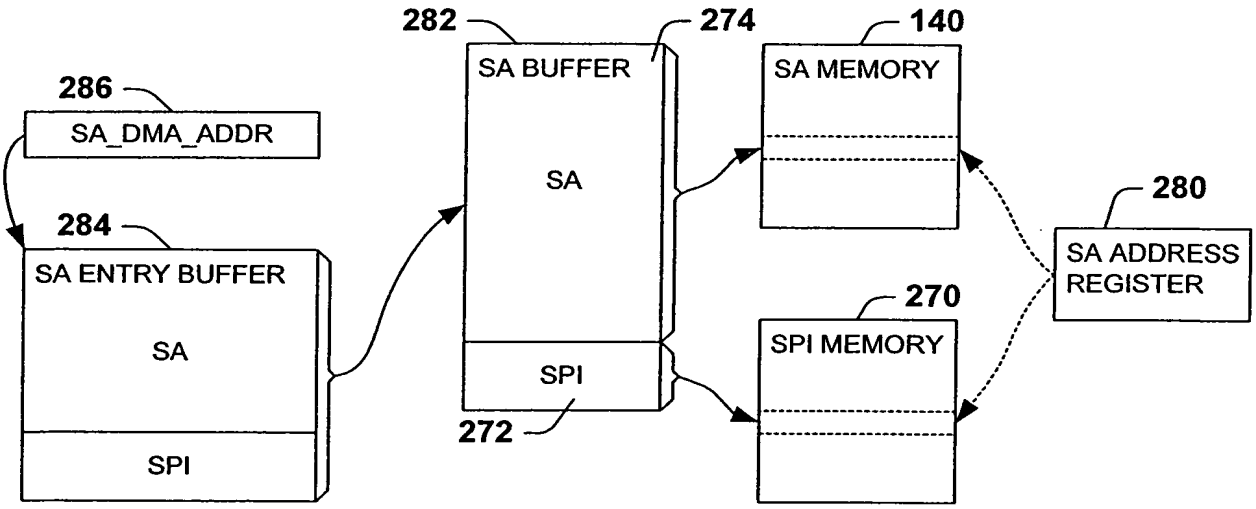


Fig. 7A

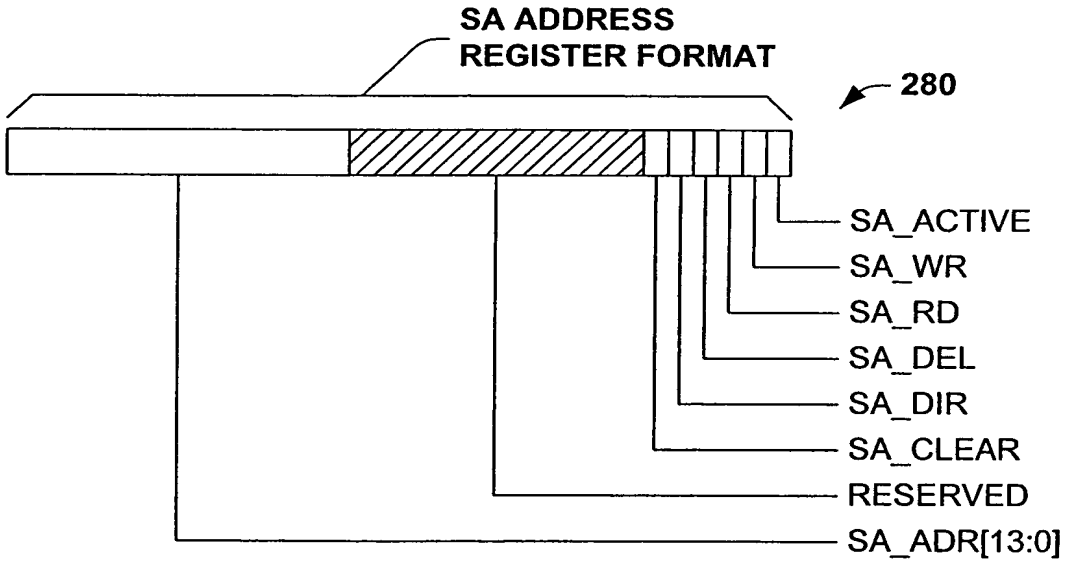


Fig. 7B

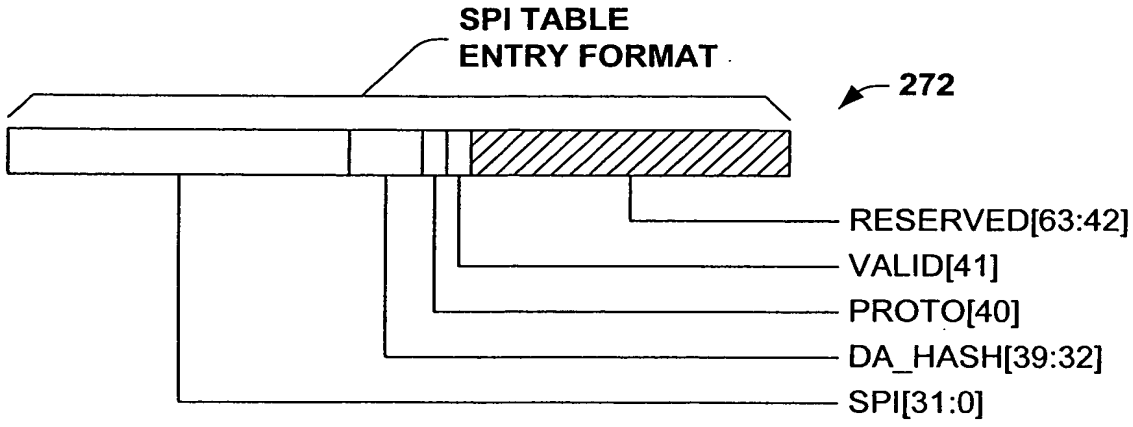


Fig. 7C

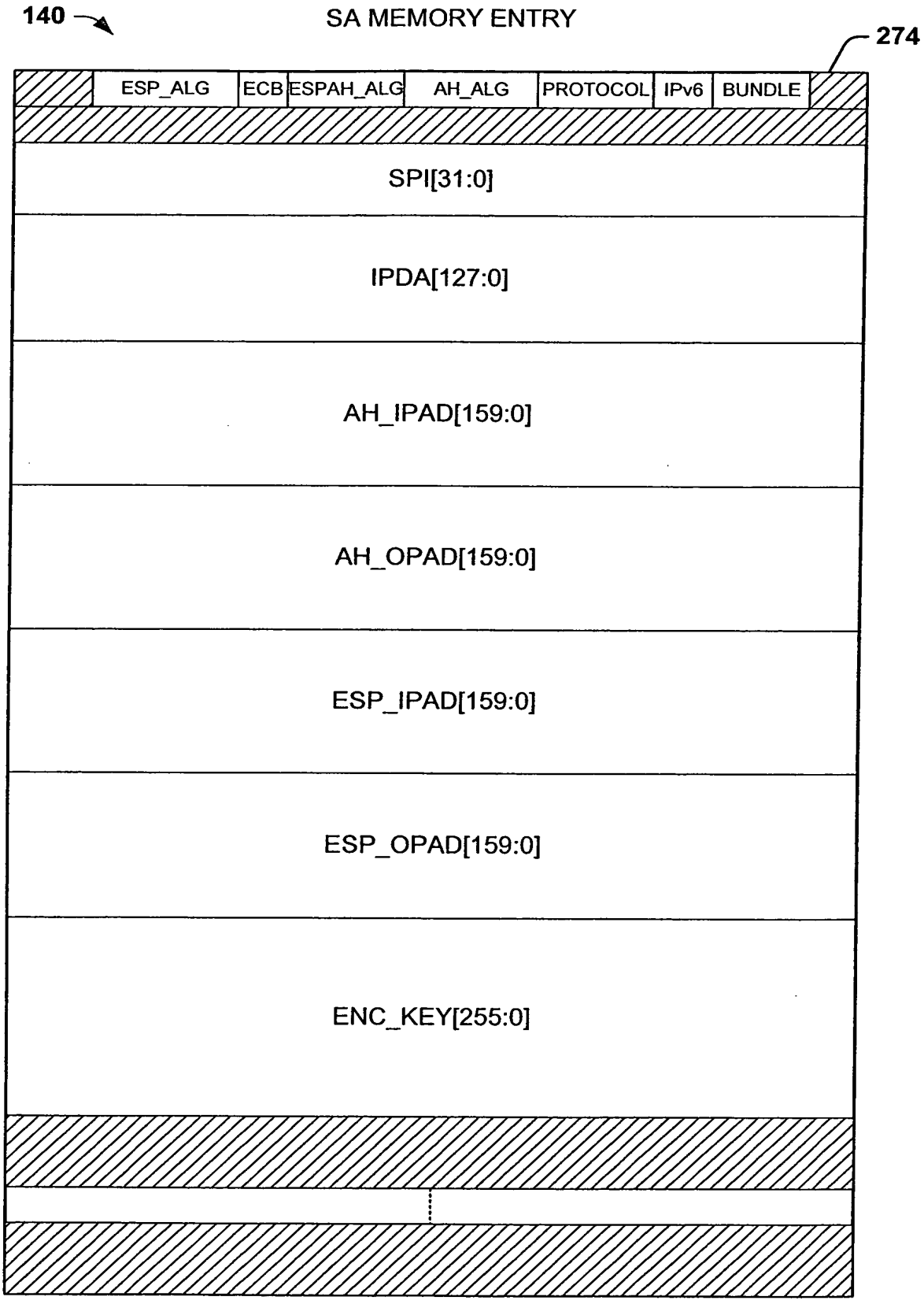


Fig. 7D